JOINT TRAINING & CERTIFICATION PROGRAM

Code of Federal Regulations (CFR) Title 23, Section 637 Subpart B requires all sampling and testing data used in the acceptance decision or the Independent Assurance program be performed by qualified sampling and testing personnel. Currently, training for testing personnel varies among the Caltrans districts, contractors and consultants. Some have a formal (or informal) training program followed up by on-the-job training (OJT) while others use OJT exclusively. This training is typically internal to each Caltrans district, contractor or consultant. Certification is performed by Independent Assurance (IA) staff through proficiency testing which may include a combination of written and practical examination on a person by person basis.

To make the certification process more efficient and to ultimately obtain consistent, reliable, quality testing through joint training; Caltrans, local agencies, and industry has established a joint training and certification program (JTCP). The need to build a proficient workforce to efficiently manage an ever increasing workload is highlighted with the passing of SB1. Through the JTCP, testing technicians receive training, gain proficiency and become certified to sample and test highway construction materials. The JTCP offers training and certification in hot mix asphalt (HMA), soils and aggregates (S/A), and portland cement concrete (PCC) through the four modules identified below. Training and certification through JTCP is required for all technicians to receive or maintain certification in the test methods offered through these modules (some exceptions apply, see JTCP FAQ's).

Hot Mix Asphalt I (HMA I)

Test Method	Name/Description
CT 105	Calculations - Gradings
CT 125	Sampling (HMA / Soil & Agg.)
AASHTO T 11	Sieve Analysis (Washing)
AASHTO T 27	Sieve Analysis
AASHTO T 176	Sand Equivalent
AASHTO R 76	Reducing Samples of Agg.
AASHTO T 255	Evaporable Moisture Content
AASHTO T 329	Moisture Content (Oven)
AASHTO T 335	Percentage of Fracture
AASHTO R 47	Reducing Samples of HMA

Hot Mix Asphalt II (HMA II)

Test Method	Name/Description
AASHTO T 166	Bulk SpG of Compacted HMA - SSD
AASHTO T 209	Max SpG and Density - HMA
AASHTO T 269	Percent Air Voids - HMA
AASHTO T 275	Bulk SpG - HMA
AASHTO T 308	AC Content (Ignition Oven)

Soils and Aggregate (S & A)

Test Method	Name/Description
CT 105	Calculations - Gradings
CT 125	Sampling (Soil & Agg.)
CT 201	Sample Preparation
CT 202	Sieve Analysis
CT 205	Percent Crushed Particles
CT 216	Relative Compaction
CT 217	Sand Equivalent
CT 226	Moisture Content (Soil & Agg.)
CT 227	Cleanness Value
CT 229	Durability

Portland Cement Concrete (ACI Field Tech.-Grade I)

Test Method	Name/Description
ASTM C1064	Temperature of Concrete
ASTM C172	Sampling (Concrete)
ASTM C143	Slump
ASTM C138	Density, Yield, and Air Content
ASTM C231	Air Content (Pressure)
ASTM C173	Air Content (Volumetric)
ASTM C31	Making / Curing Specimens

Key Benefits

- Efficient "one stop" training and certification of testing technicians
- Obtain consistent, reliable, quality testing
- Reduce material testing construction contract claims

Questions? Contact the JTCP at JTCP@dot.ca.gov

Additional JTCP information: http://www.dot.ca.gov/mets/jtcp/

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